

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A composition comprising a purified DNA having a *Btal* [[oligo]]nucleotide sequence selected from the group consisting of SEQ ID NO: 44 and SEQ ID NO: 49.
2. (Currently Amended) Purified RNA transcribed from the DNA of Claim 1.
3. (Withdrawn) Protein translated from the RNA of Claim 2.
4. (Withdrawn) Antibodies produced from the protein of Claim 3.
5. (Original) A vector comprising the DNA of Claim 1.
6. (Original) A host cell comprising the vector of Claim 5.
7. (Original) The host cell of Claim 6, wherein said host cell is *E. coli*.
8. (Original) The host cell of Claim 6, wherein said host cell is *R. sphaeroides*.
9. (Original) The host cell of Claim 6, wherein said host cell is *A. thaliana*.
10. (Original) Transgenic plants comprising the vector of Claim 5.
11. (Previously Presented) A composition comprising a purified DNA encoding a *Btal* protein having the amino acid sequence selected from the group consisting of SEQ ID NO: 45 and SEQ ID NO: 50.
12. (Currently Amended) Purified RNA transcribed from the DNA of Claim 11.
13. (Withdrawn) Protein translated from the RNA of Claim 12.
14. (Withdrawn) Antibodies produced from the protein of Claim 13.
15. (Original) A vector comprising the DNA of Claim 11.

16. (Currently Amended) A host cell comprising the vector of Claim [[5]] 15.
17. (Original) The host cell of Claim 16, wherein said host cell is *E. coli*.
18. (Original) The host cell of Claim 16, wherein said host cell is *R. sphaeroides*.
19. (Original) The host cell of Claim 16, wherein said host cell is *A. thaliana*.
20. (Original) Transgenic plants comprising the vector of Claim 15.
21. (Currently Amended) A purified *Bta1* nucleic acid that specifically hybridizes to the complement of a sequence selected from the group consisting of SEQ ID NO:44, and SEQ ID NO:49, under highly stringent conditions in 5X SSPE, 1% SDS, 5X Denhardt's reagent and 100 µg/ml denatured salmon sperm DNA at 68°C overnight, followed by a washing in a solution comprising 0.1X SSPE and 0.1% SDS at 68°C, wherein said nucleic acid encodes a protein capable of synthesizing with DGTS ~~synthetic activity~~.
22. (Original) A vector comprising the nucleic acid of Claim 21.
23. (Original) A host cell comprising the vector of Claim 22.
24. (Original) A transgenic plant comprising the vector of Claim 22.
25. (Withdrawn) A protein encoded by the nucleic acid of Claim 21.
26. (Currently Amended) A purified *Bta1* nucleic acid comprising a sequence that is at least 95% identical to SEQ ID NO:44, or a sequence that is at least 95% identical to SEQ ID NO:49, wherein said sequence encodes a protein capable of synthesizing with DGTS ~~synthetic activity~~.
27. (Original) A vector comprising the nucleic acid of Claim 26.
28. (Original) A host cell comprising the vector of Claim 27.
29. (Original) A transgenic plant comprising the vector of Claim 27.

30. (Withdrawn) A protein encoded by the nucleic acid of Claim 26.